

S/N 10/800,530

Response to Office Action Dated 11/14/2005

In the Claims

A review of the claims indicates that:

- A) Claims 1—21 are currently pending.
- B) Claims 5, 8, 9, 14, 15, 17 and 19—21 remain in their original form.
- C) Claims 1—4, 6, 7, 10—13, 16 and 18 are currently amended.

1. (Currently Amended) A method of determining a start of a scan time in a laser scanning system utilizing a scanning reflector, comprising:

directing a laser beam toward a facet of the scanning reflector so as to be reflected by the scanning reflector;

returning the laser beam reflected from the scanning reflector toward the same facet of the scanning reflector for at least one additional reflection from the scanning reflector;

detecting the laser beam reflected at least twice from the same facet of the scanning reflector; and

controlling the start of the scan time of the laser scanning system, responsive to the detection of the laser beam.

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1 2. (Currently Amended) A method according to claim 1, wherein
2 ~~transmitting the laser beam toward the scanning reflector comprises transmitting a~~
3 ~~beam the laser beam directed and returned to the facet of the scanning reflector is~~
4 separate from a modulated data beam used for conveying data in the scanning
5 system.

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7 3. (Currently Amended) A method according to claim [[1]]2, wherein
8 the modulated data beam reflects only once on the facet of the scanning reflector.
9 ~~detecting the laser beam comprises detecting by a detector adjacent a source of the~~
10 ~~laser beam.~~

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13 4. (Currently Amended) A method according to claim 2, wherein a
14 modulated data beam reflects once off the facet of the scanning reflector from
15 which the laser beam reflected twice. ~~detecting the laser beam comprises detecting~~
16 ~~by a detector adjacent a source of the laser beam.~~

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19 5. (Original) A method according to claim 1, wherein detecting the laser
20 beam comprises detecting by a detector included in a single housing with a source
21 of the laser beam, which housing does not encompass the scanning reflector.
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1 6. (Currently Amended) A method according to claim 2, wherein the
2 laser beam and the modulated data beams are separately generated laser beams.
3 ~~separate beams are generated by a single source and are split on their way to the~~
4 ~~scanning reflector.~~

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6 7. (Currently Amended) A method according to claim 1, wherein
7 transmitting the laser beam directed toward the scanning reflector ~~comprises~~
8 ~~transmitting a same beam as used for conveying data in the scanning system also~~
9 functions as the modulated data beam.
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12 8. (Original) A method according to claim 1, wherein the scanning
13 reflector comprises an oscillating reflector.
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15 9. (Original) A method according to claim 1, wherein the scanning
16 reflector comprises a rotating polygon reflector.
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19 10. (Currently Amended) A method according to claim [[5]]4, wherein
20 the scanning reflector comprises a rotating polygon reflector.
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11. (Currently Amended) A laser scanning system, comprising:
a laser beam source modulated by data;
a scanning reflector;
at least one reflector positioned to receive light from the source that has been reflected from a facet of the scanning reflector back toward the same facet of the scanning reflector;
a detector adapted to detect ~~light reflected the laser beam after reflecting~~ at least twice from the same facet of the scanning reflector; and
a controller adapted to control ~~the~~ timing of the data, including a start of a scan of the scanning system, responsive to ~~the~~ detection of light by the detector.

12. (Currently Amended) A laser scanning system according to claim 11, wherein the ~~at least one reflector comprises a plurality of reflectors, positioned such that the beam is reflected from the reflector more than twice before being detected.~~ laser beam directed toward the facet of the scanning reflector is separate from a modulated data beam.

13. (Currently Amended) A laser scanning system according to claim [11]12, wherein ~~the scanning reflector comprises a rotating polygon reflector.~~ the modulated data beam reflects only once on the facet of the scanning reflector.

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1 14. (Original) A laser scanning system according to claim 12, wherein the
2 scanning reflector comprises a rotating polygon reflector.
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4 15. (Original) A laser scanning system according to claim 11, wherein the
5 scanning reflector comprises an oscillating reflector.
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7 16. (Currently Amended) A laser scanning system according to claim 12,
8 wherein ~~the scanning reflector comprises an oscillating reflector.~~ the laser beam
9 source is configured to that a modulated data beam reflects once off the facet of
10 the scanning reflector from which the laser beam reflects twice.
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13 17. (Original) A laser scanning system according to claim 11, wherein the
14 laser beam source and the detector are included together in a single housing not
15 encompassing the scanning reflector.
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18. (Currently Amended) A laser scanning system, comprising:

1 a laser beam source;

2 a scanning reflector;

3 a detector adapted to detect light reflected at least twice from a same face of

4 the scanning reflector; and

5 ~~a mounting element having the laser beam source and the detector but not~~

6 ~~the scanning reflector mounted therein or thereon; and~~

7 a controller adapted to control the timing of the scanning system, including

8 a start of scan of the scanning system, responsive to the detection of light by the

9 ~~detector.~~ detector;

10 wherein a modulated data beam created by the laser beam source reflects

11 only once on the facet of the scanning reflector.

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19. (Original) A laser scanning system according to claim 18, wherein the scanning reflector comprises an oscillating reflector.

20. (Original) A laser scanning system according to claim 18, wherein the scanning reflector comprises a rotating polygon reflector.

21. (Original) A laser scanning system according to claim 18, comprising an additional reflector adapted to reflect light from the source, which was reflected from the scanning reflector, back onto the scanning reflector.